

CLAIMS

1. A buckle switch for detecting buckling and unbuckling states between a tongue plate, attached to a seat belt, and a buckle body to and from which the tongue plate is buckled and unbuckled, comprising:

a case, a movable member freely movable within the case, an urging member for urging the movable member in a direction to move away from the case, a first switch section including a movable contact disposed on the movable member and a stationary contact disposed in a position opposite to the movable contact inside the case, and a second switch section including a magnet and magnetic detection means one of which is disposed on the movable member and the other disposed in the case;

the buckle body having an inside including a slider movable with the tongue plate when the tongue plate is inserted to the buckle body wherein the movable member is caused to move in a direction against the urging member due to movement of the slider to render the movable contact and the stationary contact of the first switch section conductive to switch an output state of the magnetic detection means of the second switch section.

2. The buckle switch according to claim 1, wherein the one of the stationary contact and the movable contact

includes a pair of pin-shaped terminals and the other includes pinch members between which the pin-shaped terminals are sandwiched for sliding capabilities.

3. The buckle switch according to claim 2, wherein one pin-shaped terminal and the other pin-shaped terminal are formed in different lengths in dimension and the pin-shaped terminal with a short length in dimension is operative to be brought into or out of pinching engagement with the pinch members.

4. The buckle switch according to any one of claims 1 to 3, wherein the urging member is disposed between the first switch section and the second switch section.

5. The buckle switch according to any one of claims 1 to 4, wherein the magnetic detection means internally incorporates a hall element as a magnetic detecting element.

6. A buckle device including the buckle switch according to any one of claims 1 to 5.